GenCore version 5.1.3

OM protein - protein search, using sw model

Run on: February 11, 2003, 19:45:09 ; Search time 13.1143 Seconds
(without alignments)
991.661 Million cell updates/sec

Title: US-09-497-967-6
Perfect score: 2342
Sequence: 1 MKYNILLILIISLFINELRA.....STTFAKFLSISLLFISFYLL 442

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	234	10.0	1652	4	US-09-627-650B-1	Sequence 1, Appli
2	234	10.0	1652	4	US-09-436-063C-1	Sequence 1, Appli
3	233.5	10.0	2508	4	US-09-627-650B-7	Sequence 7, Appli
4	233.5	10.0	2508	4	US-09-436-063C-7	Sequence 7, Appli
5	233.5	10.0	2544	4	US-09-627-650B-3	Sequence 3, Appli
6	233.5	10.0	2544	4	US-09-436-063C-3	Sequence 3, Appli
7	233.5	10.0	2601	4	US-09-627-650B-9	Sequence 9, Appli
8	233.5	10.0	2601	4	US-09-436-063C-9	Sequence 9, Appli
9	230	9.8	1917	4	US-09-627-650B-5	Sequence 5, Appli
10	230	9.8	1917	4	US-09-436-063C-5	Sequence 5, Appli
11	219.5	9.4	1128	4	US-09-627-650B-11	Sequence 11, Appl
12	219.5	9.4	1128	4	US-09-436-063C-11	Sequence 11, Appl
13	219	9.4	341	2	US-08-209-521-11	Sequence 11, Appl
14	202.5	8.6	2088	4	US-09-548-372D-13	Sequence 13, Appl
15	202.5	8.6	2088	4	US-09-548-367D-13	Sequence 13, Appl
16	195.5	8.3	801	1	US-07-906-349A-6	Sequence 6, Appli
17	194.5	8.3	1400	4	US-08-630-915A-37	Sequence 37, Appl
18	190.5	8.1	3111	2	US-08-460-309-4	Sequence 4, Appli
19	190.5	8.1	3111	2	US-08-125-077-4	Sequence 4, Appli
20	186	7.9	3075	2	US-08-460-309-5	Sequence 5, Appli
21	186	7.9	3075	2	US-08-125-077-5	Sequence 5, Appli
22	177.5	7.6	2211	4	US-09-738-884-1	Sequence 1, Appli
23	173.5	7.4	288	2	US-08-525-940-15	Sequence 15, Appl
24	173.5	7.4	288	2	US-08-976-838-15	Sequence 15, Appl
25	172	7.3	799	2	US-08-525-940-23	Sequence 23, Appl
26	172	7.3	799	2	US-08-976-838-23	Sequence 23, Appl
27	172	7.3	881	2	US-08-525-940-21	Sequence 21, Appl
28	172	7.3	881	2	US-08-976-838-21	Sequence 21, Appl
29	172	7.3	915	2	US-08-525-940-18	Sequence 18, Appl
30	172	7.3	915	2	US-08-976-838-18	Sequence 18, Appl
31	172	7.3	915	4	US-09-214-555B-2	Sequence 2, Appli
32	172	7.3	915	4	US-09-214-555B-7	Sequence 7, Appli
33	168.5	7.2	288	1	US-08-368-852-15	Sequence 15, Appl
34	162.5	6.9	1345	2	US-08-977-767-3	Sequence 3, Appli
35	154.5	6.6	2556	1	US-08-083-590A-20	Sequence 20, Appl
36	154.5	6.6	2556	3	US-08-532-384-20	Sequence 20, Appl
37	153.5	6.6	1417	4	US-08-900-230-3	Sequence 3, Appli
38	151.5	6.5	3224	2	US-08-705-660-34	Sequence 34, Appl
39	151.5	6.5	3224	3	US-08-989-045-34	Sequence 34, Appl
40	150.5	6.4	1111	1	US-08-317-450B-15	Sequence 15, Appl
41	150.5	6.4	1111	4	US-08-800-593-15	Sequence 15, Appl
42	150.5	6.4	1193	1	US-08-317-450B-13	Sequence 13, Appl
43	150.5	6.4	1193	4	US-08-800-593-13	Sequence 13, Appl
44	149.5	6.4	2556	1	US-08-185-432-17	Sequence 17, Appl
45	149.5	6.4	2556	4	US-08-899-232-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-627-650B-1
; Sequence 1, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; APPLICANT: Jorgensen, Erik
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; TITLE OF INVENTION: Methods Related Thereto
; FILE REFERENCE: 21101.0009U3
; CURRENT APPLICATION NUMBER: US/09/627,650B
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 09/436,063
; PRIOR FILING DATE: 1999-11-08
; PRIOR APPLICATION NUMBER: 60/107,727
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1652
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-627-650B-1

Query Match 10.0%; Score 234; DB 4; Length 1652;
Best Local Similarity 26.4%; Pred. No. 2.4e-11;
Matches 115; Conservative 14; Mismatches 211; Indels 96; Gaps 17;

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Qy      20 AVPCPDGTQTQAGLTDVGAADLGTCVNCR-----PNFYYNGGAAQGEANGNQPFAANNAA 74
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Db     580 ATACTAGTCAAAGATTAACAGTCACTGCAACGTGTCCAATGGACCTGAAGCTGTTCCCAA 639

Qy      75 RG-----ICVPCQINRVGSVTNAGDLAT--LATQC-STQCPTGTALDDGVTDVFDRSAAQ 126
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Qy     127 CVKCKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---- 182
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Db     698 CGAGTACAAATGGT--GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGA 754

Qy     183 -----AQANLATQCSNQCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPG 236
                | |     |:  |  ||       |    | :|  |  |
Db     755 CGCGAACATCGAACTGTCGAGTTATAAATTCACTAAAATCTGC---------------- 797

Qy     237 VQVFAAGAAAAGVAAVTSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTL 296
             || ||  |  | |: |  |       : || |      | |:  | | ||   | |
Db     798 ---CAAAAACGGACACTTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTA 852

Qy     297 VFSNSSTQ--------CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQ 348
           :  :|         |  |           ||   | |    ||       |||  |
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Qy    349 CLTTCPAGTVLDDGTSTNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGAT 408
          |   |                    || | ||     | | |||| |   |    | |||
Db    902 C---C-------------------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGAT 934

Qy    409 AKVYAEATQKVQCAST 424
                |    ||:|
Db    935 CTCATTCTGGATCAAT 950


RESULT 2
US-09-436-063C-1
; Sequence 1, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 1652
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-436-063C-1

  Query Match             10.0%;  Score 234;  DB 4;  Length 1652;
  Best Local Similarity   26.4%;  Pred. No. 2.4e-11;
  Matches  115;  Conservative   14;  Mismatches  211;  Indels   96;  Gaps   17;

Qy     20 AVPCPDGTQTQAGLTDVGAADLGTCVNCR-----PNFYYNGGAAQGEANGNQPFAANNAA 74
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Db    580 ATACTAGTCAAAGATTAACAGTCACTGCAACGTGTCCAATGGACCTGAAGCTGTTCCCAA 639

Qy     75 RG-----ICVPCQINRVGSVTNAGDLAT--LATQC-STQCPTGTALDDGVTDVFDRSAAQ 126
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Db    640 TGGACTCTCAACACTGTAAACTGGAAATTGAAAGCTATGC--GTATTCGACGGCCGAAAT 697

Qy    127 CVKCKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---- 182
          |          ||:  | | |    | ||   | |  : |  |      : |  |
Db    698 CGAGTACAAATGGT--GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGA 754

Qy    183 -----AQANLATQCSNQCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPG 236
               | |     |:  |  ||       |    | :|  |  |
Db    755 CGCGAACATCGAACTGTCGAGTTATAAATTCACTAAAATCTGC---------------- 797

Qy    237 VQVFAAGAAAAGVAAVTSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTL 296
            || ||  |  | |: |  |      : || |      | |:  | | ||   | |
Db    798 ---CAAAAACGGACACTTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTA 852

Qy    297 VFSNSSTQ--------CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQ 348
            :  :|          |  |              ||   |  |    ||       |||  |
Db    853 GTTTCATATTTGATCGCGAC-----------AGCGGCTTCTACTTTCTTCAAATATTTTT 901

Qy    349 CLTTCPAGTVLDDGTSTNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGAT 408
          |   |                    || | ||     | | |||| |   |    | |||
Db    902 C---C-------------------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGAT 934

Qy    409 AKVYAEATQKVQCAST 424
                |    ||:|
Db    935 CTCATTCTGGATCAAT 950


RESULT 3
US-09-627-650B-7
; Sequence 7, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.000903
;  CURRENT APPLICATION NUMBER: US/09/627,650B
;  CURRENT FILING DATE:  2000-07-28
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 2508
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-627-650B-7

  Query Match             10.0%;  Score 233.5;  DB 4;  Length 2508;
  Best Local Similarity   26.7%;  Pred. No. 4.5e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy     27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
          | | || |   |   |||          |||   |             |   | |
Db   1500 TCTAAGCTTAAACTCGTC----------GGACAAGAT-----CCAGGAGAACGACAAGTG 1544

Qy     87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
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Db   1545 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1595

Qy    143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
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Db   1596 GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGACGCGAACATCGAACTG 1654

Qy    194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
          |  ||       |    | :|  |  |                        || ||  |  |
Db   1655 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAACGGACAC 1694

Qy    253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
          |: |  |      : || |      | |:  | | ||   | |   :  :|
Db   1695 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1752

Qy    305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
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Db   1753 CGAC-----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C----------- 1787

Qy    365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
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Db   1788 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1834


RESULT 4
US-09-436-063C-7
; Sequence 7, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 2508
;   TYPE: PRT
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;   ORGANISM: Caenorhabditis elegans
US-09-436-063C-7

  Query Match            10.0%;  Score 233.5;  DB 4;  Length 2508;
  Best Local Similarity   26.7%;  Pred. No. 4.5e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy      27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
           | | || |   |   |||           |||    |           |   | |
Db    1500 TCTAAGCTTAAACTCGTC----------GGACAAGAT-----CCAGGAGAACGACAAGTG 1544

Qy      87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
           |    ||     || |    :| |  |||   |       :|| |          ||:
Db    1545 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1595

Qy     143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
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Db    1596 GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGACGCGAACATCGAACTG 1654

Qy     194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
           |  ||      |    | :|  |  |                        || ||  |  |
Db    1655 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAAACGGACAC 1694

Qy     253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
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Db    1695 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1752

Qy     305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
           |  |            ||   |  |    ||        |||  | |   |
Db    1753 CGAC----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C---------- 1787

Qy     365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
                 || | ||     | | |||| |   |    | |||       |    ||:|
Db    1788 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1834


RESULT 5
US-09-627-650B-3
; Sequence 3, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.0009U3
;  CURRENT APPLICATION NUMBER: US/09/627,650B
;  CURRENT FILING DATE:  2000-07-28
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 2544
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-627-650B-3

  Query Match            10.0%;  Score 233.5;  DB 4;  Length 2544;
  Best Local Similarity   26.7%;  Pred. No. 4.6e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy      27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
           | | || |   |   |||           |||    |           |   | |
Db    1536 TCTAAGCTTAAACTCGTC----------GGACAAGAT-----CCAGGAGAACGACAAGTG 1580

Qy      87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
           |    ||     || |    :| |  |||   |       :|| |          ||:
Db    1581 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1631

Qy     143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
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Db    1632 GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGACGCGAACATCGAACTG 1690

Qy     194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
           |  ||      |    | :|  |  |                        || ||  |  |
Db    1691 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAAACGGACAC 1730

Qy     253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
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Db    1731 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1788

Qy     305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
           |  |            ||   |  |    ||        |||  | |   |
Db    1789 CGAC----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C---------- 1823

Qy     365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
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Db    1824 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1870


RESULT 6
US-09-436-063C-3
; Sequence 3, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 2544
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-436-063C-3

  Query Match            10.0%;  Score 233.5;  DB 4;  Length 2544;
  Best Local Similarity   26.7%;  Pred. No. 4.6e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy      27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
           | | || |   |   |||           |||    |           |   | |
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Qy      87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
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Db    1581 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1631

Qy     143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
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Qy     194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
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Db    1691 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAAACGGACAC 1730

Qy     253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
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Db    1731 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1788

Qy     305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
           |  |            ||   |  |    ||        |||  | |   |
Db    1789 CGAC----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C---------- 1823

Qy     365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
                 || | ||     | | |||| |   |    | |||       |    ||:|
Db    1824 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1870
```

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RESULT 7
US-09-627-650B-9
; Sequence 9, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.0009U3
;  CURRENT APPLICATION NUMBER: US/09/627,650B
;  CURRENT FILING DATE:  2000-07-28
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
;   LENGTH: 2601
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-627-650B-9

  Query Match             10.0%;  Score 233.5;  DB 4;  Length 2601;
  Best Local Similarity   26.7%;  Pred. No. 4.7e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy      27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
           | | || |   |  |||          |||   |          |   | |
Db    1593 TCTAAGCTTAAACTCGTC----------GGACAAGAT-----CCAGGAGAACGACAAGTG 1637

Qy      87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
           |    ||     || |    :| |  |||   |       :|| |           ||:
Db    1638 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1688

Qy     143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
           | | |    | ||   | |   : |  |      : |  |         | |     |:
Db    1689 GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGACGCGAACATCGAACTG 1747

Qy     194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
           |  ||       |    | :|  |  |                    || ||  |  |
Db    1748 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAAACGGACAC 1787

Qy     253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
           |: |  |      : || |      | |:  | | ||   | |   :  :|
Db    1788 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1845

Qy     305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
           |  |           ||   |  |    ||       |||  | |   |
Db    1846 CGAC----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C---------- 1880

Qy     365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
                  || | ||     | | |||| |   |    | |||       |    ||:|
Db    1881 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1927


RESULT 8
US-09-436-063C-9
; Sequence 9, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
;   LENGTH: 2601
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-436-063C-9

  Query Match             10.0%;  Score 233.5;  DB 4;  Length 2601;
  Best Local Similarity   26.7%;  Pred. No. 4.7e-11;
  Matches  112;  Conservative   13;  Mismatches  188;  Indels  107;  Gaps   17;

Qy      27 TQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRV 86
           | | || |   |  |||          |||   |          |   | |
Db    1593 TCTAAGCTTAAACTCGTC----------GGACAAGAT-----CCAGGAGAACGACAAGTG 1637

Qy      87 GSVTNAGDLATLATQC----STQCPTGTALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQ 142
           |    ||     || |    :| |  |||   |       :|| |           ||:
Db    1638 GCAGCAG-----ATCCACTGATGC--GTATTCGACGGCCGAAATCGAGTACAAATGGT-- 1688

Qy     143 GEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAG---------AQANLATQCSN 193
           | | |    | ||   | |   : |  |      : |  |         | |     |:
Db    1689 GTACGTCGAAGGAGCCGAATTGTTCGAC-AGCGGTCAAGGCCGACGCGAACATCGAACTG 1747

Qy     194 QCPTGTVLDDGVTLVFNT-SATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAV 252
           |  ||       |    | :|  |  |                    || ||  |  |
Db    1748 TCGAGTTATAAATTCACTAAAATCTGC-------------------CAAAAACGGACAC 1787

Qy     253 TSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQ-------- 304
           |: |  |      : || |      | |:  | | ||   | |   :  :|
Db    1788 TTGC--CAGCACTTCATCGGGGACCTACTCTCGTCTACGGGTTAGTTTCATATTTGATCG 1845

Qy     305 CSQCIANYFFNGNFEAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTS 364
           |  |           ||   |  |    ||       |||  | |   |
Db    1846 CGAC----------AGCGGCTTCTACTTTCTTCAAATATTTTTC---C---------- 1880

Qy     365 TNFVASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
                  || | ||     | | |||| |   |    | |||       |    ||:|
Db    1881 ---------CTGCCAGCCTCGTCG-TAGTTTTATCA---TGGATCTCATTCTGGATCAAT 1927


RESULT 9
US-09-627-650B-5
; Sequence 5, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.0009U3
;  CURRENT APPLICATION NUMBER: US/09/627,650B
;  CURRENT FILING DATE:  2000-07-28
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 1917
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-627-650B-5

  Query Match             9.8%;  Score 230;  DB 4;  Length 1917;
  Best Local Similarity   26.1%;  Pred. No. 6.4e-11;
  Matches  109;  Conservative   14;  Mismatches  203;  Indels   92;  Gaps   18;

Qy      26 GTQTQAGLTDVGAADLG----TCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPC 81
           ||   |  |  ||        ||  |       | |       |       |  | |  |
Db     476 GTTGGAATTACGATACACGTTTCTTCAATCTCTGCAGTTTCAGAAGTTGATATGGACTTC 535
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Qy      82 QINRVGSVTNAGDLATLATQCSTQCPT--------GTALDDGVTDVFDRSAAQCVKCKPN 133
Db     536 -----ACATTAG-ACTTCTACATGCGTCAAACGTGGCAAGACCCTCGACTAGCCTTC--- 586

Qy     134 FYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAGAQANLATQCSN 193
Db     587 ---------GGAAG--TCTTGATTTGGGACTTTC--C--------AAAGAAATCGA-CTC 624

Qy     194 QCPT---GTVLDDGVTLVFNTSATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVA 250
Db     625 ACTTACCGTCGGAG-------TAGACTAC-----CTGGATAGACTGTG--GAAACCCGAC 670

Qy     251 AVTSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQCSQCIA 310
Db     671 ACGTTCTTCCCAAATGAAAAGAAATCATTCTTCCACTTG-------------GCAACCA 716

Qy     311 NYFFNGNFEAGKSQCLKCPVSKTTP---AHAPGNTATQATQCLTTCPAGTVLDDGTSTNF 367
Db     717 CACATAACTCGTTCCTTCGTATCGAGGGTGATGGAACGGTTTATACTAGTCAAAGATTAA 776

Qy     368 VASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCASTT 425
Db     777 CAGTCACTGCAA----------CGTGTC--CA--ATGGACCTGAAGCTGTTCCCAAT 819


RESULT 10
US-09-436-063C-5
; Sequence 5, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 1917
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-436-063C-5

  Query Match             9.8%;  Score 230;  DB 4;  Length 1917;
  Best Local Similarity   26.1%;  Pred. No. 6.4e-11;
  Matches  109;  Conservative   14;  Mismatches  203;  Indels   92;  Gaps   18;

Qy      26 GTQTQAGLTDVGAADLG----TCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPC 81
Db     476 GTTGGAATTACGATACACGTTTCTTCAATCTCTGCAGTTTCAGAAGTTGATATGGACTTC 535

Qy      82 QINRVGSVTNAGDLATLATQCSTQCPT--------GTALDDGVTDVFDRSAAQCVKCKPN 133
Db     536 -----ACATTAG-ACTTCTACATGCGTCAAACGTGGCAAGACCCTCGACTAGCCTTC--- 586

Qy     134 FYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAGAQANLATQCSN 193
Db     587 ---------GGAAG--TCTTGATTTGGGACTTTC--C--------AAAGAAATCGA-CTC 624

Qy     194 QCPT---GTVLDDGVTLVFNTSATLCVKCRPNFYYNGGSPQGEAPGVQVFAAGAAAAGVA 250
Db     625 ACTTACCGTCGGAG-------TAGACTAC-----CTGGATAGACTGTG--GAAACCCGAC 670

Qy     251 AVTSQCVPCQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQCSQCIA 310
Db     671 ACGTTCTTCCCAAATGAAAAGAAATCATTCTTCCACTTG-------------GCAACCA 716

Qy     311 NYFFNGNFEAGKSQCLKCPVSKTTP---AHAPGNTATQATQCLTTCPAGTVLDDGTSTNF 367
Db     717 CACATAACTCGTTCCTTCGTATCGAGGGTGATGGAACGGTTTATACTAGTCAAAGATTAA 776

Qy     368 VASATECTKCSAGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCASTT 425
Db     777 CAGTCACTGCAA----------CGTGTC--CA--ATGGACCTGAAGCTGTTCCCAAT 819


RESULT 11
US-09-627-650B-11
; Sequence 11, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.0009U3
;  CURRENT APPLICATION NUMBER: US/09/627,650B
;  CURRENT FILING DATE:  2000-07-28
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
;   LENGTH: 1128
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-09-627-650B-11

  Query Match             9.4%;  Score 219.5;  DB 4;  Length 1128;
  Best Local Similarity   25.0%;  Pred. No. 2.5e-10;
  Matches  113;  Conservative   13;  Mismatches  197;  Indels  129;  Gaps   18;

Qy      23 CPDGTQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQ 82
Db      77 CTCGTCGTCGTT--GCTTCCTCATCA------ACATAGATAGATTCAA-------CC-CG 120

Qy      83 INRVGSVTNAGDLATLATQ----------CSTQCPT----------------------GT 110
Db     121 CTTAACCTGTGTCATCATATCCAACCCACCAACCATGAAGCCCAATGTGTTCAGATGCGT 180

Qy     111 ALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPC 170
Db     181 ATTCGACGGCCGAAATCGAGTACAAATGGT--GTACGTCGAAGGAGCCGAATTGTTCGAC 238

Qy     171 QLNKNDSPATAG---------AQANLATQCSNQCPTGTVLDDGVTLVFNT-SATLCVKCR 220
Db     239 -AGCGGTCAAGGCCGACGCGAACATCGAACTGTCGAGTTATAAATTCACTAAAATCTGC- 296

Qy     221 PNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQINKNDSPATAGAQANLATQC 280
Db     297 ------------------CAAAAACGGACACTTGC--CAGCACTTCATCGGGGACCTAC 335

Qy     281 STQCPTGTAIQDGVTLVFSNSSTQ--------CSQCIANYFFNGNFEAGKSQCLKCPVSK 332
Db     336 TCTCGTCTACGGGTTAGTTTCATATTTGATCGCGAC----------AGCGGCTTCTACT 384

Qy     333 TTPAHAPGNTATQATQCLTTCPAGTVLDDGTSTNFVASATECTKCSAGFFASKTTGFTAG 392
Db     385 TTCTTCAAATATTTTTC---C-------------------CTGCCAGCCTCGTCG-TAG 420

Qy     393 TDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
Db     421 TTTTATCA---TGGATCTCATTCTGGATCAAT 449


RESULT 12
US-09-436-063C-11
; Sequence 11, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
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;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: P-1095corrected
;  CURRENT APPLICATION NUMBER: US/09/436,063C
;  CURRENT FILING DATE:  1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
;    LENGTH: 1128
;    TYPE: PRT
;    ORGANISM: Caenorhabditis elegans
US-09-436-063C-11

  Query Match             9.4%;  Score 219.5;  DB 4;  Length 1128;
  Best Local Similarity   25.0%;  Pred. No. 2.5e-10;
  Matches  113;  Conservative   13;  Mismatches  197;  Indels  129;  Gaps   18;

Qy      23 CPDGTQTQAGLTDVGAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQ 82
           |  ||    | |  |     ||  |         |  |   |    ||      |  |
Db      77 CTCGTCGTCGTT--GCTTCCTCATCA------ACATAGATAGATTCAA-------CC-CG 120

Qy      83 INRVGSVTNAGDLATLATQ----------CSTQCPT----------------------GT 110
             |  |  || ||           |:  | |                          ||
Db     121 CTTAACCTGTGTCATCATATCCAACCCACCAACCATGAAGCCCAATGTGTTCAGATGCGT 180

Qy     111 ALDDGVTDVFDRSAAQCVKCKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPC 170
           |  |       :|| |          ||:  | | |    | ||   | |   : |  |
Db     181 ATTCGACGGCCGAAATCGAGTACAAATGGT--GTACGTCGAAGGAGCCGAATTGTTCGAC 238

Qy     171 QLNKNDSPATAG---------AQANLATQCSNQCPTGTVLDDGVTLVFNT-SATLCVKCR 220
             : |  |          | |    |:  |  ||      |    | :|  |  |
Db     239 -AGCGGTCAAGGCCGACGCGAACATCGAACTGTCGAGTTATAAATTCACTAAAATCTGC- 296

Qy     221 PNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQINKNDSPATAGAQANLATQC 280
                             || ||  |  | |: |  |       : || |      | |
Db     297 ------------------CAAAAACGGACACTTGC--CAGCACTTCATCGGGGACCTAC 335

Qy     281 STQCPTGTAIQDGVTLVFSNSSTQ--------CSQCIANYFFNGNFEAGKSQCLKCPVSK 332
           :  | | ||   | |   :  :|         |  |           ||    | |
Db     336 TCTCGTCTACGGGTTAGTTTCATATTTGATCGCGAC----------AGCGGCTTCTACT 384

Qy     333 TTPAHAPGNTATQATQCLTTCPAGTVLDDGTSTNFVASATECTKCSAGFFASKTTGFTAG 392
           ||       |||  | |   |                    || | ||     | | |||
Db     385 TTCTTCAAATATTTTTC---C-------------------CTGCCAGCCTCGTCG-TAG 420

Qy     393 TDTCTECTKKLTSGATAKVYAEATQKVQCAST 424
           | |   |    | |||       |    ||:|
Db     421 TTTTATCA---TGGATCTCATTCTGGATCAAT 449


RESULT 13
US-08-209-521-11
; Sequence 11, Application US/08209521
; Patent No. 5922855
;  GENERAL INFORMATION:
;    APPLICANT:  Liskay, Robert M.
;    APPLICANT:  Bronner, C. Eric
;    APPLICANT:  Baker, Sean M.
;    APPLICANT:  Bollag, Roni J.
;    APPLICANT:  Kolodner, Richard D.
;    TITLE OF INVENTION:  MAMMALIAN DNA MISMATCH REPAIR GENES
;    TITLE OF INVENTION:  hMLH1 AND hPMS1
;    NUMBER OF SEQUENCES:  30
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Kolisch, Hartwell, Dickinson, McCormack &
;      ADDRESSEE:  Heuser
;      STREET:  520 S.W. Yamhill, Suite 200
;      CITY:  Portland
;      STATE:  Oregon
;      COUNTRY:  US
;      ZIP:  97204
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/209,521
;      FILING DATE:  08-MAR-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Van Rysselberghe, Pierre C.
;      REGISTRATION NUMBER:  33,557
;      REFERENCE/DOCKET NUMBER:  OHSU 306A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (503) 224-6655
;      TELEFAX:  (503) 295-6679
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  341 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    POSITION IN GENOME:
;      MAP POSITION:  3p21.3-23
US-08-209-521-11

  Query Match             9.4%;  Score 219;  DB 2;  Length 341;
  Best Local Similarity   27.6%;  Pred. No. 6.1e-11;
  Matches  113;  Conservative   17;  Mismatches  185;  Indels   94;  Gaps   20;

Qy      37 GAADLGTCVNCRPNFYYNGGAAQGEANGNQPFAANNAARGICVPCQINRVGSVTNAGDLA 96
           |||   ||        ||||          ||  |    |        |: |
Db       1 GAAT--TCAAAGAGATTTGGAA----------AATGAGTAACA------TGATTATTTAC 42

Qy      97 TLATQCSTQCPTGTALDDGVTDVFDRSA-AQCVKCKPNFYYNGGSP--------QGEAPG 147
           | || |:|    |||           :| | |              ||:          | | |
Db      43 TCAT-CTTTTTGGTATCTAACAAAAGAAGATC---------TGGATATTGTATGTGAAAG 92

Qy     148 VQVFAAGAAAAGVAAVTSQCV-PCQLNKNDSPA---TAGAQANLATQCSNQCPTGTVLDD 203
           :  |  |  || ||  : |   |          |   |||  |  ||      | | |
Db      93 GKTCACTACTAGTAAACTGCAGTCCTTTGAGGADTTTAGCCAGTATTTCTACCTAT---G 149

Qy     204 GVTLVFNTSATLCVKCRPNFYYNGGSPQG--EAPGVQVFAAGAAAAG---VAAVTSQCVP 258
           | |       |            ||:  |   | |    ||||| |    || |: |
Db     150 GCTTTCGAGGTGA----------GGTAAGCTAAAGATTCAAGAAATGTKTAAAATATCCT 199

Qy     259 CQINKNDSPATAGAQANLATQCSTQCPTGTAIQDGVTLVFSNSSTQCSQCIANYFFNGNF 318
           |            || |   |   | | | |     |     : ::  |: |
Db     200 C----CTGTGATGACATTGTYTGT-CATTTGTTAGTATGTATTTCTCAAC---------- 244

Qy     319 EAGKSQCLKCPVSKTTPAHAPGNTATQATQCLTTCPAGTVLDDGTSTNFVASATECTKCS 378
                 |  | | | | |  | | ||  | |     | |   |: |  | |:
Db     245 ---------ATAGATAAATAAGGTTTGGTACCTTTTACT-----TGTTAAATGT-ATGCA 289

Qy     379 AGFFASKTTGFTAGTDTCTECTKKLTSGATAKVYAEATQKVQCASTTFA 427
           |       ||  | | |   |    |: ||    |: |    | :|  |
Db     290 AA--TGTATGCAAATCTGHGCAAACTTAATG---ADCTTTAACTTTCAA 333


RESULT 14
US-09-548-372D-13
; Sequence 13, Application US/09548372D
; Patent No. 6420534
; GENERAL INFORMATION:
;  APPLICANT: GURNEY ET AL.
;  TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USE
;  TITLE OF INVENTION:  THEREOF
;  FILE REFERENCE: 29915/6280I
;  CURRENT APPLICATION NUMBER: US/09/548,372D
;  CURRENT FILING DATE:  2000-04-12
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;  PRIOR APPLICATION NUMBER: US 60/155,493
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: US 09/404,133
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: PCT/US99/20881
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: US 60/101,594
;  PRIOR FILING DATE: 1998-09-24
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 2088
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-548-372D-13

  Query Match             8.6%;  Score 202.5;  DB 4;  Length 2088;
  Best Local Similarity   23.5%;  Pred. No. 1.5e-08;
  Matches  115;  Conservative   16;  Mismatches  226;  Indels  133;  Gaps   19;

Qy      23 CPDGTQTQAGLTDVG-----AADLGTCVNCRPNFYYNGGAAQGEA--------NGNQPFA 69
           |  |  |  |     |       |    |  |       |||     |         |
Db     141 CCAGAATGGGAAGTGGGATTCAGATCCATCA-----GGGACCAAAACCTGCATTGATACC 195

Qy      70 ANNAARGICVPCQINRVGSVTNAGDLATLATQCSTQCPTGTALDDGVTDVFDRSAAQCVK 129
           |   | | |  |      |: |      |  |  |:  | || |           : | |
Db     196 AAGGAAGGCATCCTGCAGTATTGCCAAGAAGTCTACCCTGAACT-------GCAGATCAC 248

Qy     130 CKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAGAQANLAT 189
           |         :  |    |      |   ||  |   : |  |           |||     |
Db     249 C-------AATGTGGTAGAAGCCAACCAACCAGTGACCATC---------CAGAACTGGT 292

Qy     190 QCSNQCPTG----------------------------TVLDDGVTLVFNTSATLCVKCR 220
           |:  |  |                            |    | |    |:   |  |
Db     293 GCAAGCGGGGCCGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGC- 351

Qy     221 PNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQC-VPCQINKNDSPATAGAQANLATQ 279
             ||:  |   |    |||  | |    |  |   |           ||     ||
Db     352 TTAGTTGGTGAGTTTGT---AAGTGATGCCCTTCTCGTTC----CTGACAAGTGCAAATT 404

Qy     280 CSTQC--------------PTGTAIQDGVTLVFSNSSTQCS------------QCIAN 311
           |:| |                 |||    |       : | |:            | |
Db     405 CTTACACCAGGAGAGGATGGATGTTTGCGAAACTCATCTTCACTGGCACACCGTCGCCAA 464

Qy     312 YFFN-----------GNFEAGKSQCLKCPVSKTTPA-HAPGNTATQATQCLTTCPAGTVL 359
               |   || : |  |      | |  | |  ||  | |   |           |
Db     465 AGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTG--C 522

Qy     360 DDGTSTNFVASATECTKCSAGFFASKTTGFTAGTDT-----CTECTKKLTSGATAKVYAE 414
             :|   |: | |  | ||   :   | | || |      |  ||   |  | |
Db     523 GGAATTGACAAGTTC--CGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTG 580

Qy     415 ATQKVQCAST 424
           |     ||:|
Db     581 A-----CAAT 585


RESULT 15
US-09-548-367D-13
; Sequence 13, Application US/09548367D
; Patent No. 6440698
; GENERAL INFORMATION:
;  APPLICANT: GURNEY ET AL.
;  TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES
;  TITLE OF INVENTION:  THEREOF
;  FILE REFERENCE: 29915/6280H
;  CURRENT APPLICATION NUMBER: US/09/548,367D
;  CURRENT FILING DATE:  2000-04-12
;  PRIOR APPLICATION NUMBER: US 60/155,493
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: US 09/404,133
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: PCT/US99/20881
;  PRIOR FILING DATE: 1999-09-23
;  PRIOR APPLICATION NUMBER: US 60/101,594
;  PRIOR FILING DATE: 1998-09-24
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 2088
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-548-367D-13

  Query Match             8.6%;  Score 202.5;  DB 4;  Length 2088;
  Best Local Similarity   23.5%;  Pred. No. 1.5e-08;
  Matches  115;  Conservative   16;  Mismatches  226;  Indels  133;  Gaps   19;

Qy      23 CPDGTQTQAGLTDVG-----AADLGTCVNCRPNFYYNGGAAQGEA--------NGNQPFA 69
           |  |  |  |     |       |    |  |       |||     |         |
Db     141 CCAGAATGGGAAGTGGGATTCAGATCCATCA-----GGGACCAAAACCTGCATTGATACC 195

Qy      70 ANNAARGICVPCQINRVGSVTNAGDLATLATQCSTQCPTGTALDDGVTDVFDRSAAQCVK 129
           |   | | |  |      |: |      |  |  |:  | || |           : | |
Db     196 AAGGAAGGCATCCTGCAGTATTGCCAAGAAGTCTACCCTGAACT-------GCAGATCAC 248

Qy     130 CKPNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNKNDSPATAGAQANLAT 189
           |         :  |    |      |   ||  |   : |  |           |||     |
Db     249 C-------AATGTGGTAGAAGCCAACCAACCAGTGACCATC---------CAGAACTGGT 292

Qy     190 QCSNQCPTG----------------------------TVLDDGVTLVFNTSATLCVKCR 220
           |:  |  |                            |    | |    |:   |  |
Db     293 GCAAGCGGGGCCGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGC- 351

Qy     221 PNFYYNGGSPQGEAPGVQVFAAGAAAAGVAAVTSQC-VPCQINKNDSPATAGAQANLATQ 279
             ||:  |   |    |||  | |    |  |   |           ||     ||
Db     352 TTAGTTGGTGAGTTTGT---AAGTGATGCCCTTCTCGTTC----CTGACAAGTGCAAATT 404

Qy     280 CSTQC--------------PTGTAIQDGVTLVFSNSSTQCS------------QCIAN 311
           |:| |                 |||    |       : | |:            | |
Db     405 CTTACACCAGGAGAGGATGGATGTTTGCGAAACTCATCTTCACTGGCACACCGTCGCCAA 464

Qy     312 YFFN-----------GNFEAGKSQCLKCPVSKTTPA-HAPGNTATQATQCLTTCPAGTVL 359
               |   || : |  |      | |  | |  ||  | |   |           |
Db     465 AGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTG--C 522

Qy     360 DDGTSTNFVASATECTKCSAGFFASKTTGFTAGTDT-----CTECTKKLTSGATAKVYAE 414
             :|   |: | |  | ||   :   | | || |      |  ||   |  | |
Db     523 GGAATTGACAAGTTC--CGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTG 580

Qy     415 ATQKVQCAST 424
           |     ||:|
Db     581 A-----CAAT 585


Search completed: February 11, 2003, 19:49:12
Job time : 24.1143 secs
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